

ABSTRACT

A microcontact printing pin for depositing a liquid on a substrate includes a printing tip at a first end and a reservoir, which holds a supply of a printing fluid, communicating with the printing tip. A fluid delivery channel extends between the reservoir and the printing tip and the channel has a tapered shape decreasing in width from the reservoir to the printing tip. This tapered shape ensures that the delivery of the printing fluid to the printing tip is smooth, accurate and controllable. The printing tip portion may also be thinned so that the printing tip portion is thinner than the portion provided with the reservoir and a stepped portion between the reservoir and the thinned printing tip portion that eliminates prespotting.